

Summary of Key Briefing Points
1030-1130am MST Thu February 4, 2016

Current Conditions as of Thur 12Z-15Z February 4

Tropics and Mid-latitudes

Over the Tropical Pacific:

- Convection: Mission domain 0-10N, 160W-150W quiet this morning.
- An area of active Convection in region 170W-160W, 0-3°N this morning.
- An area of active convection in region 145-135W, 3-7N this morning
- Strong radiating outflow from both convective regions evident in cloud track winds
- Westerly upper level flow to 8N, 160-150W, NW upper flow in mission domain poleward 170W-160W, 4-7°N.
- Water vapor image at 14Z THU shows dry intrusion to 5N in 160W-150W band

Tropical Outlook

- Convection for Thus and Fri mostly quiet in Flight domain
 - Confidence is somewhat high based on EC/GFS model agreement
 - Confidence is high based on consistency of forecasts among successive Initializations

- By 00Z SUN 7 FEB (Sat aftn HNL), some convection expected in FD
 - No indication at this time from models of organized convection in FD for Sat aft

--- in summary, the indication from THU forecasts is for Convection to be reduced considerably by THU and FRI, and still quite limited on Sat, likely of a more isolated character in FD

Midlatitude Conditions/Outlook

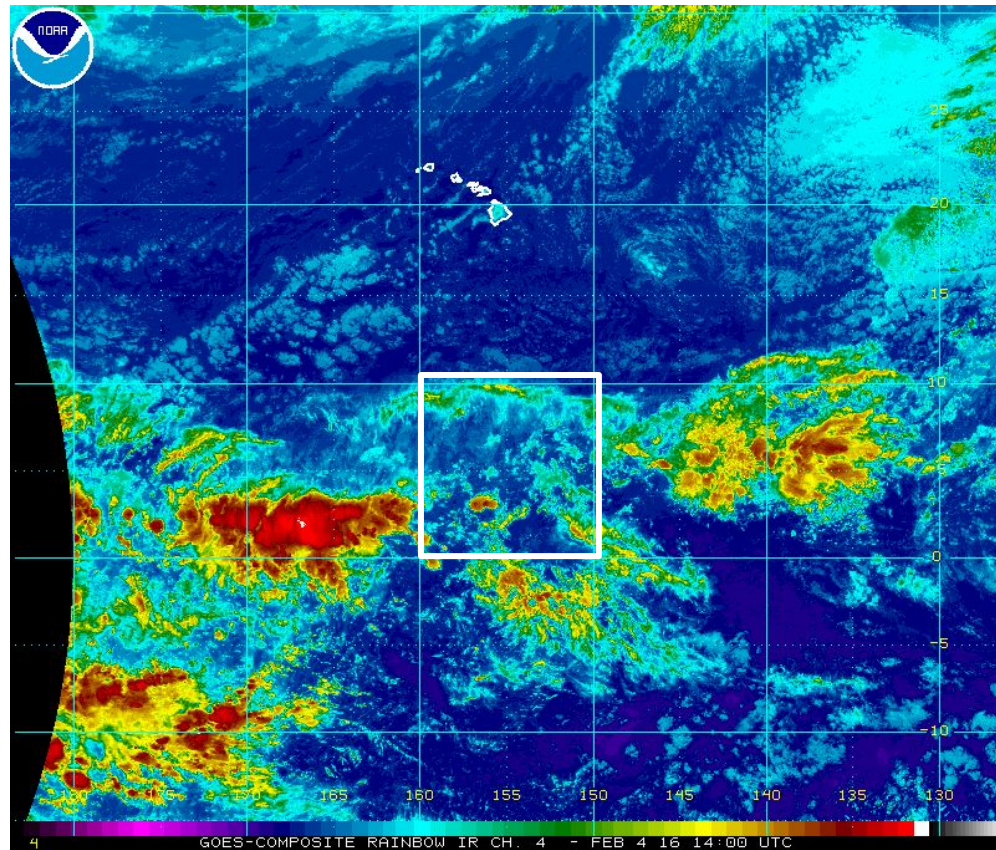
Short Term:

- CA mostly quiet
- Weak frontal rains in north mid-week, otherwise dry
- 8-station NSierra index on 31 Jan is 121%, 5-station CSierra index is 124%, Tulare Basin Index: 128%

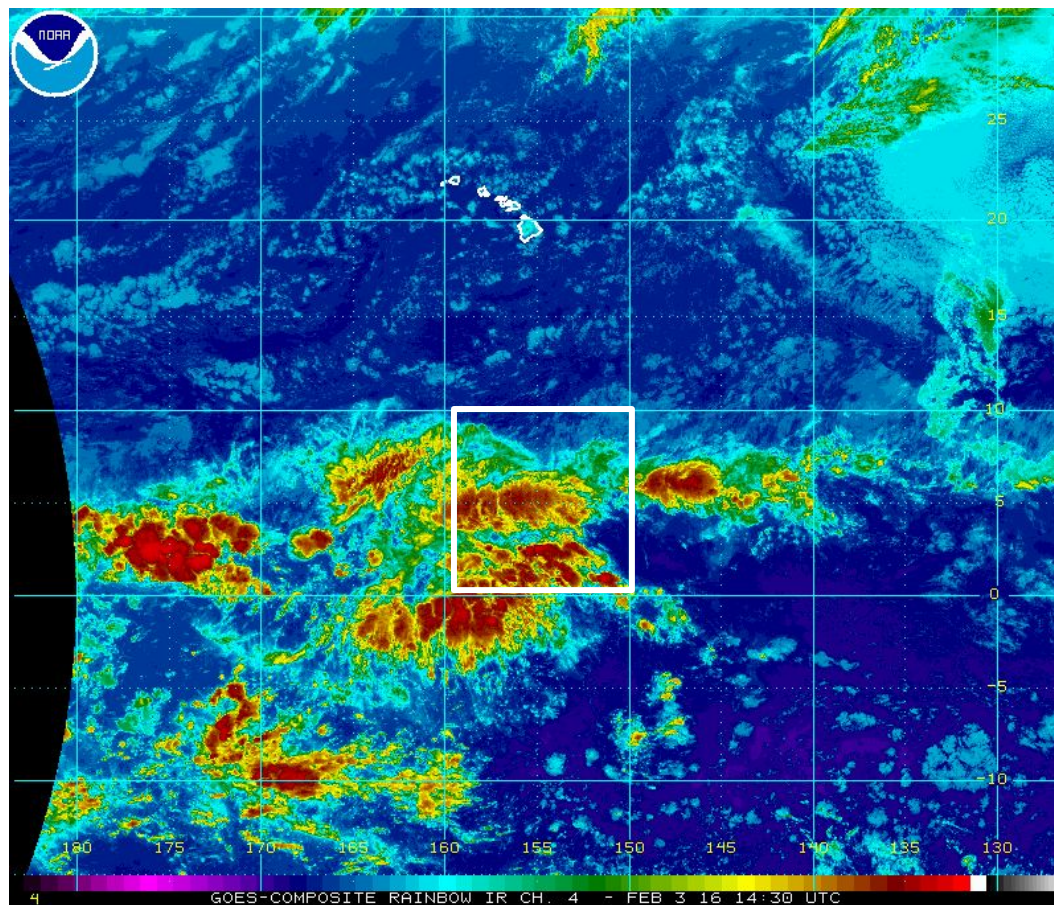
Medium - Long Term:

- Day 0-7 accumulated pcpn for CA shows little pcpn
- CPC 6-10 day (Feb 7-11) pcpn probabilities have high probabilities of below normal statewide
- Days 7 -10 fcsts from 00 TUE 2 Feb runs indicate sharp WCOAST Ridge
----confidence high (strong model agreement) that Tue 9 Feb thru Fri 12 Feb to be quiet in CA and NE Pacific
- Day 8-15 Calibrated Pcpn for CA (00Z Mon fcst) indicates a change, with above normal risks for >2" rainfall in region from SFO to SAN.
--- confidence low given poor model performance in prior long lead predictions.

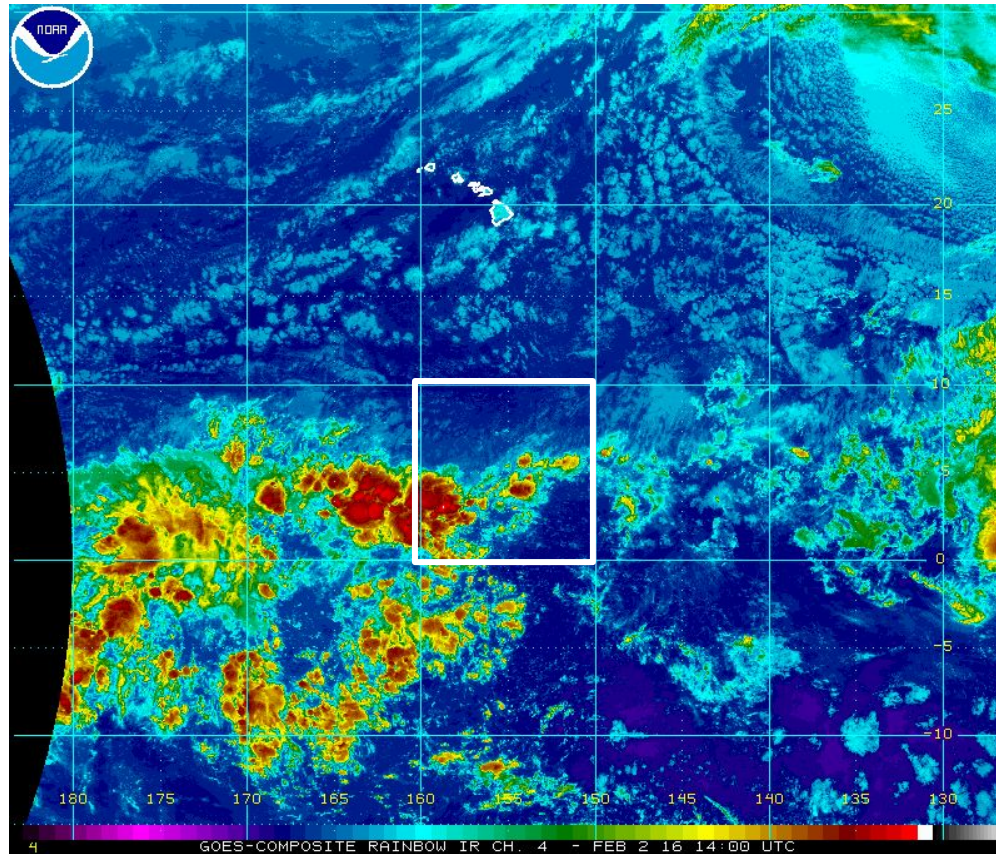
THU 14Z February 4 Enhanced IR Image



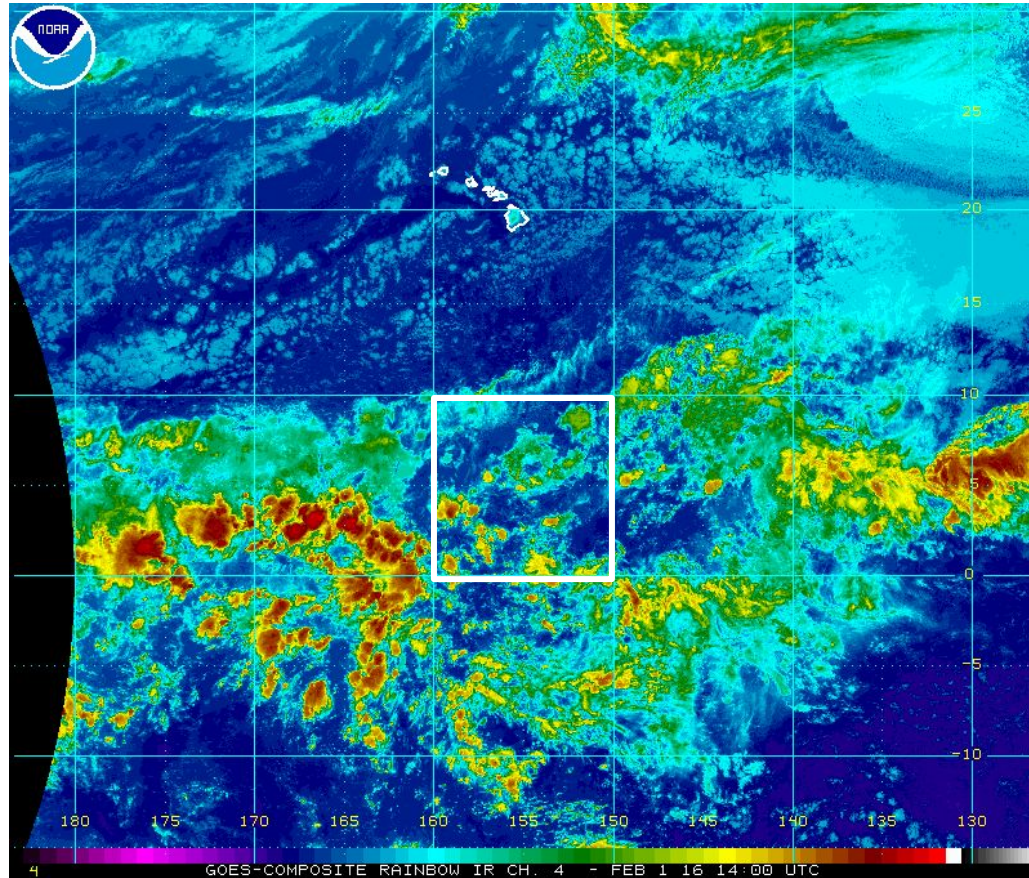
Wed 1430Z February 3 Enhanced IR Image



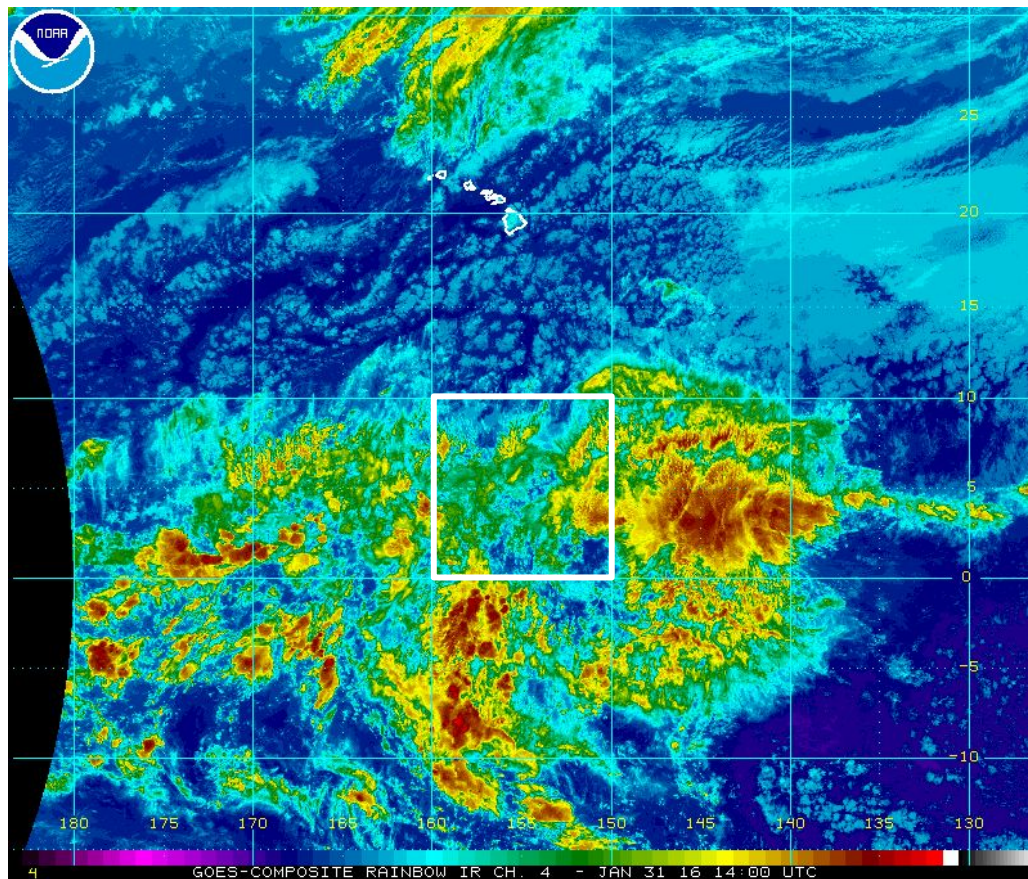
Tuesday 14Z February 2 Enhanced IR Image



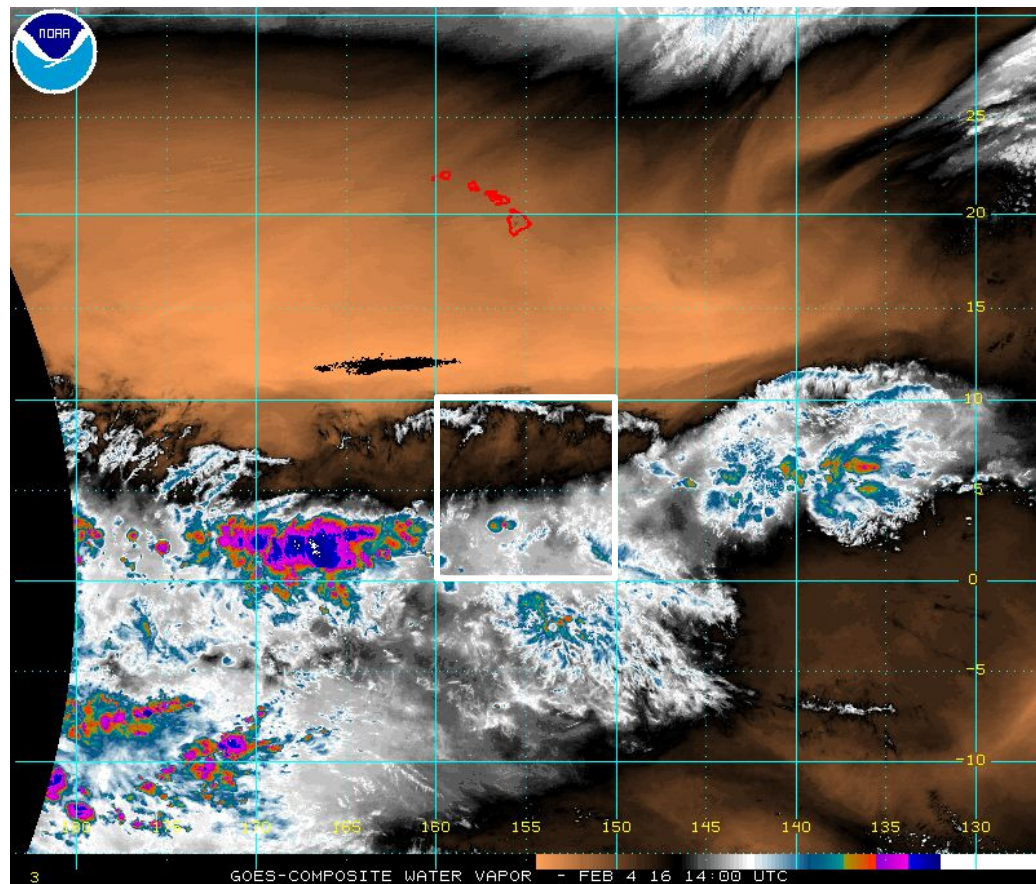
Monday 14Z February 1 Enhanced IR Image



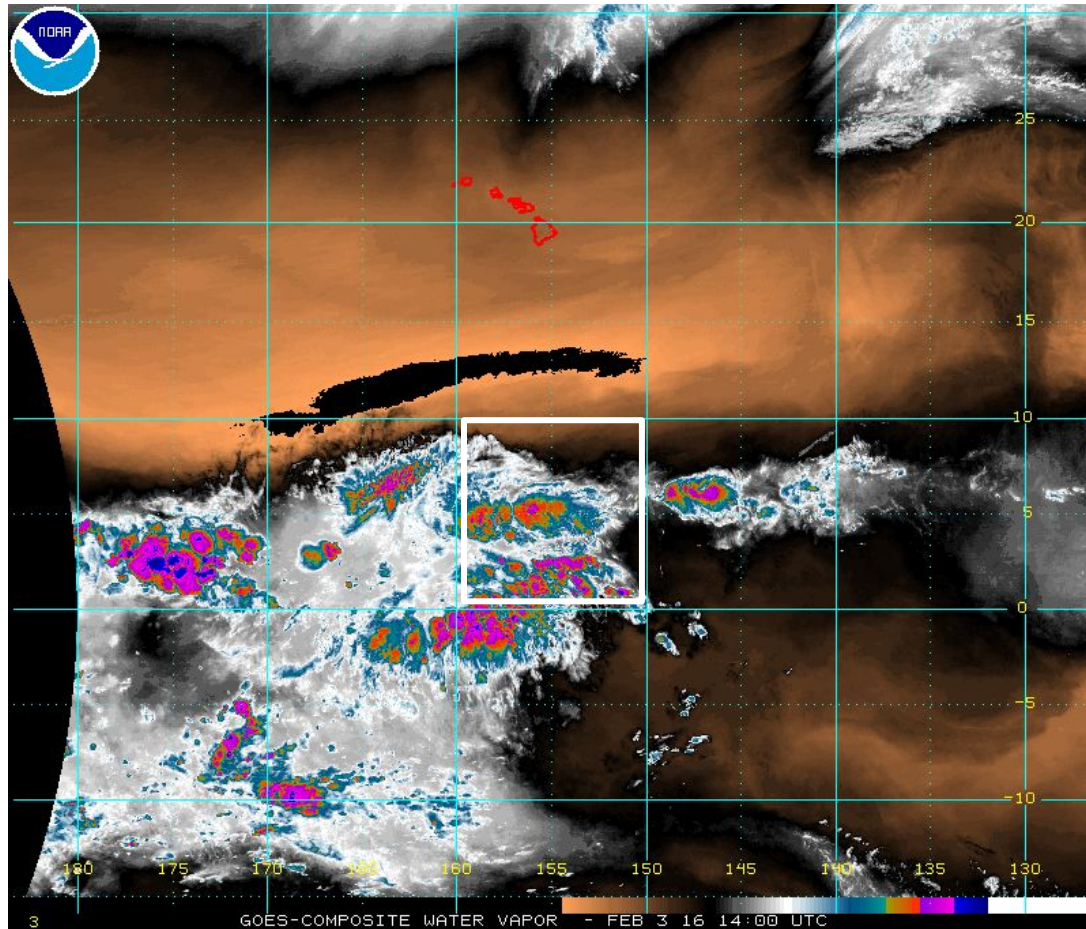
Sunday 14Z January 31 Enhanced IR Image



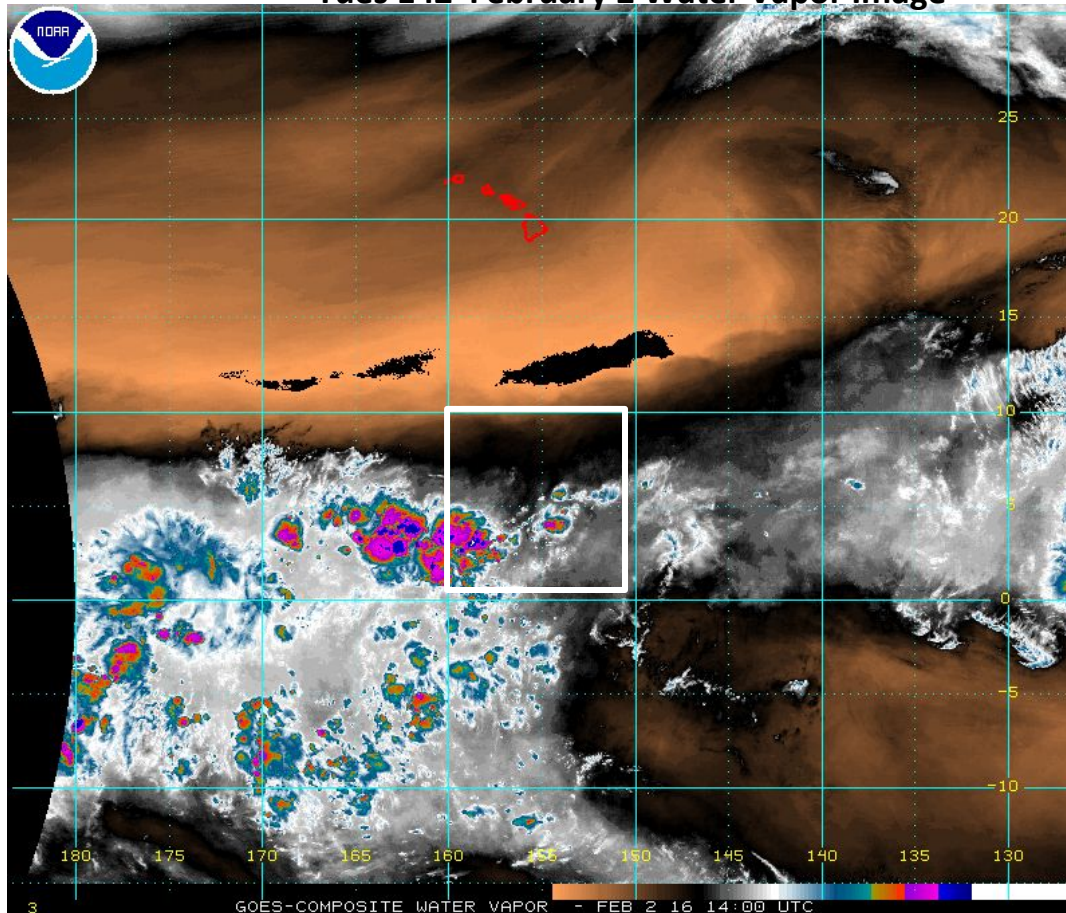
Thu 14Z February 4 Water Vapor



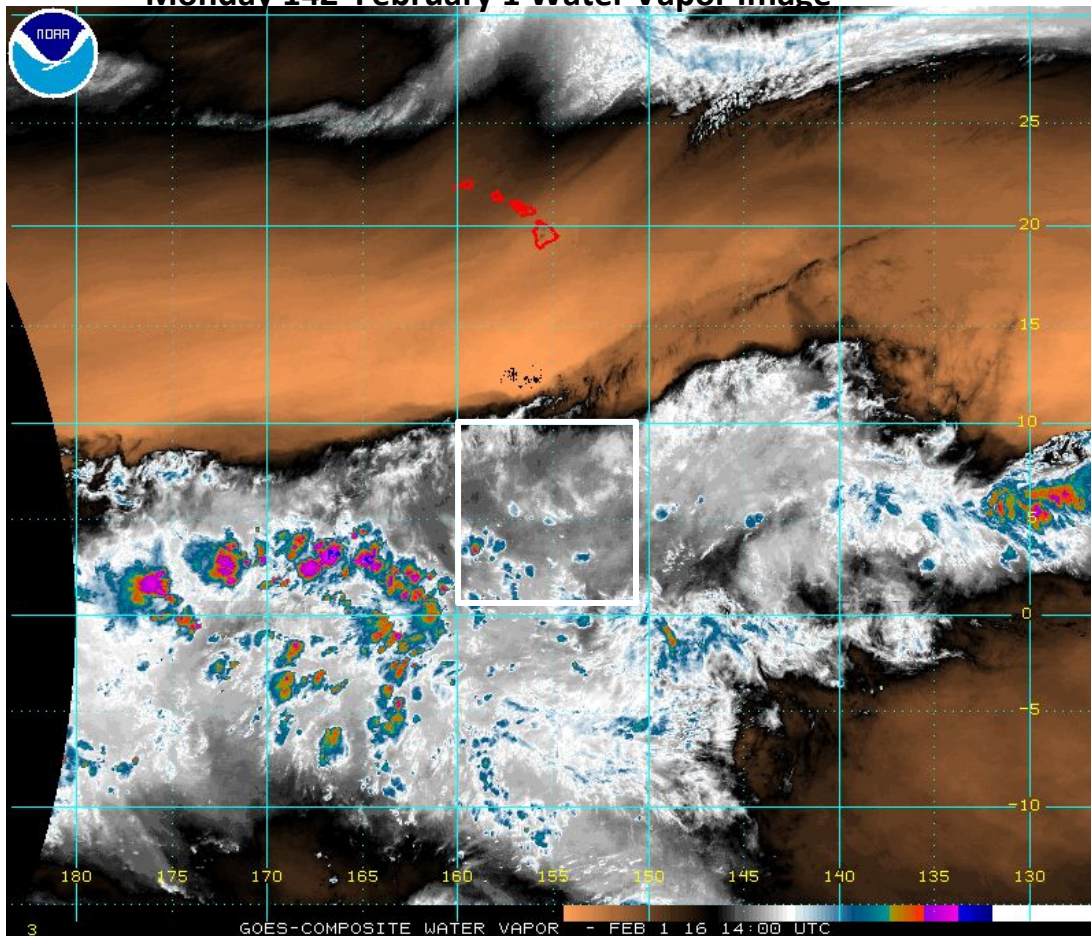
Wednesday 14Z February 3 Water Vapor



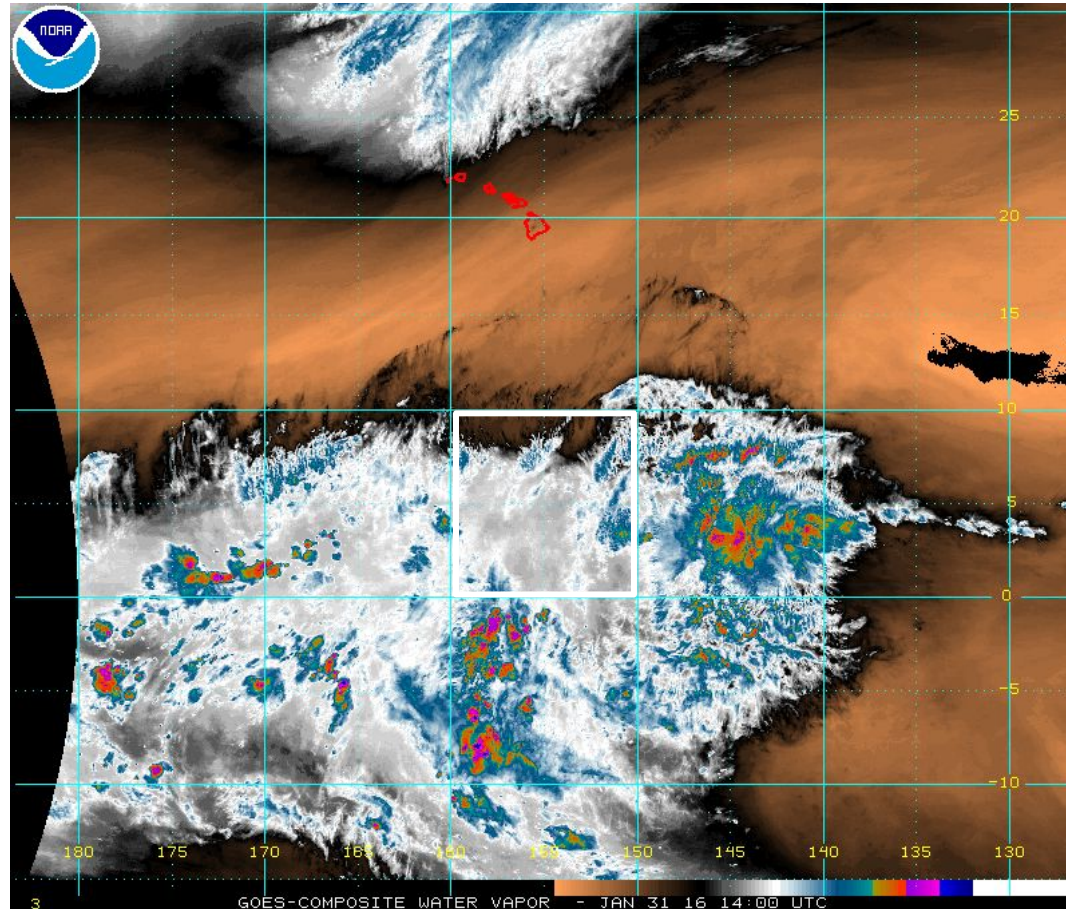
Tues 14Z February 2 Water Vapor Image



Monday 14Z February 1 Water Vapor Image

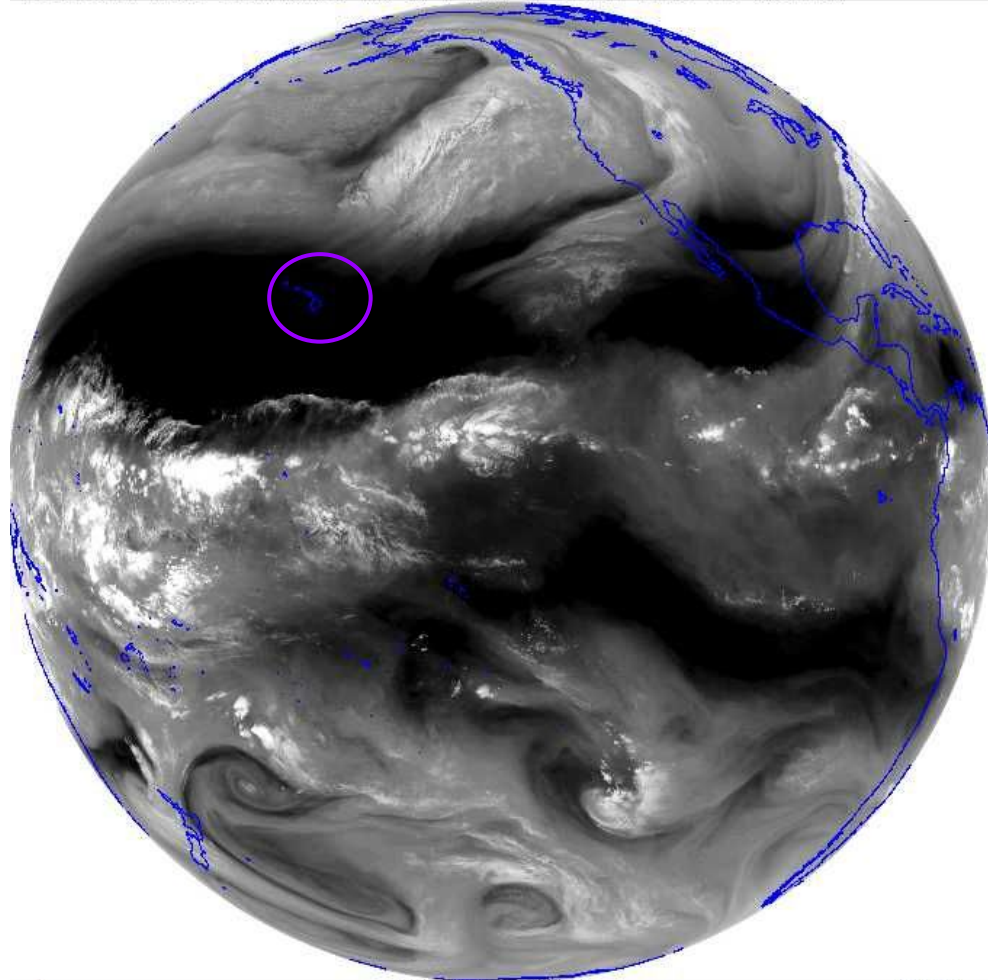


Sunday 14Z January 31 Water Vapor Image



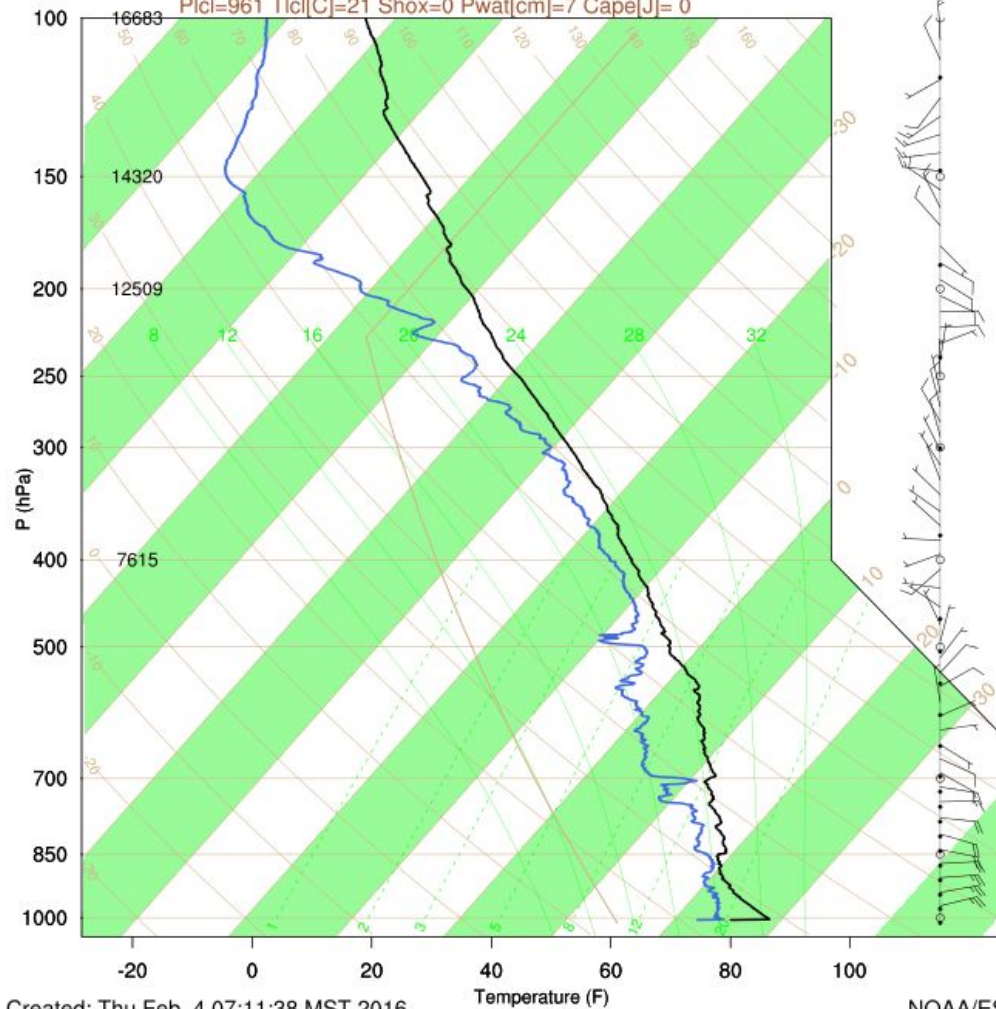
THU 15Z February 4 GOES West Water Vapor Image

GOES WEST FULL DISK WATER VAPOR 4 FEB 16 15:00 SSEC: UW-MADISON



Kiritimati Is: 02/04/2016 1116Z 2.01N 157.40W

Ptcl=961 Tlcl[C]=21 Shox=0 Pwat[cm]=7 Cape[J]= 0

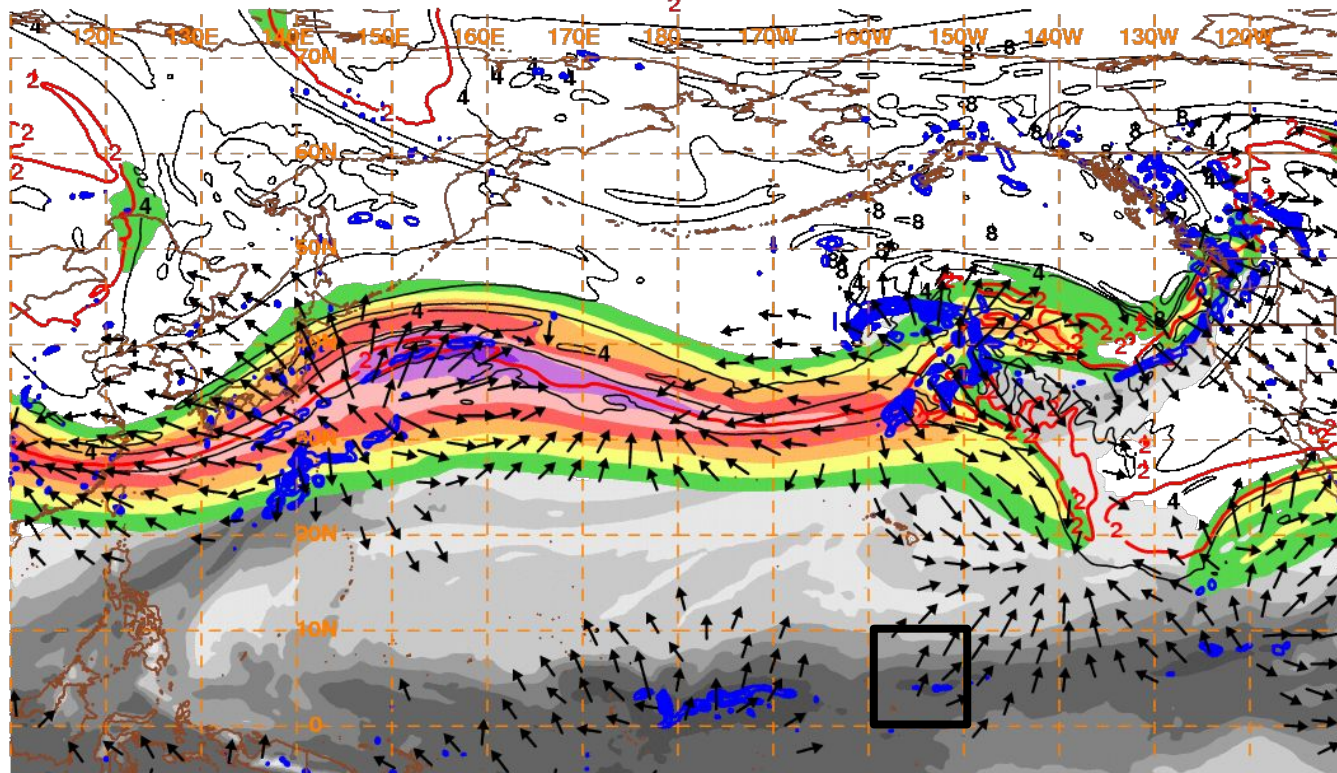


Created: Thu Feb 4 07:11:38 MST 2016

Temperature (F)

NOAA/ESRL PSD

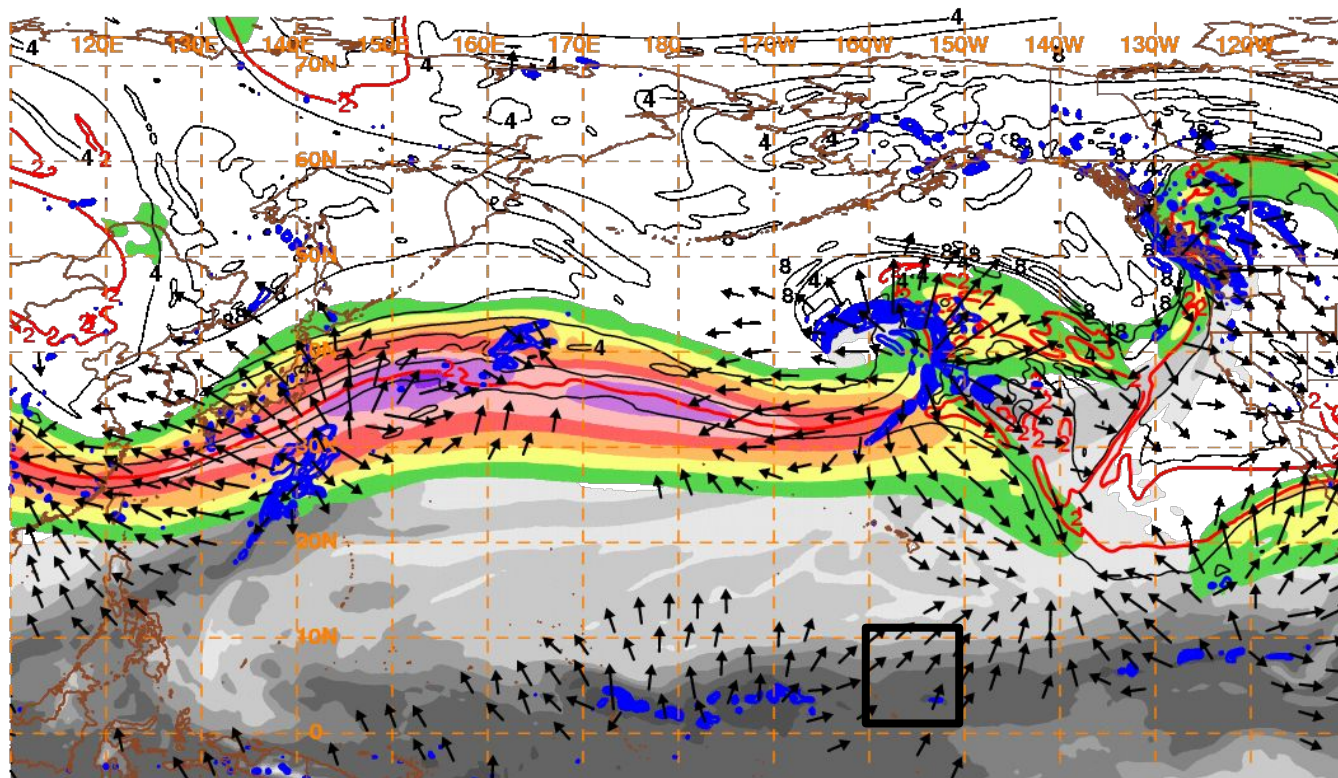
GFS 42 HR Div Wind Vectors Valid 00Z Feb 6 SAT



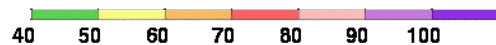
10 m/s → 160206/0000V042 PW, 250 hPa Isotachs, PV, Irr. Wind, 500 hPa Upward Vert. Vel



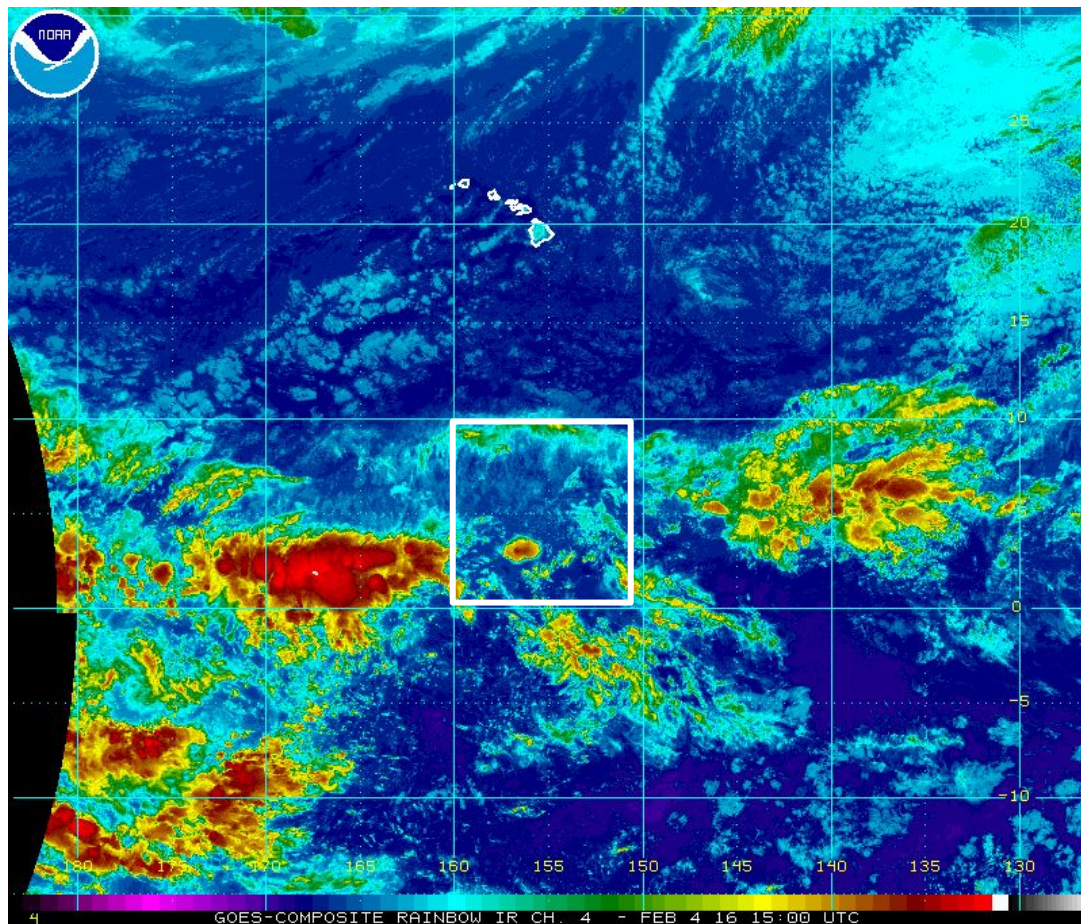
GFS 66 HR FCST Valid 00Z SAT Feb 6: 200 mb DIV Wind Vectors



10 m/s → 160206/0000V066 PW, 250 hPa Isotachs, PV, Irr. Wind, 500 hPa Upward Vert. Vel



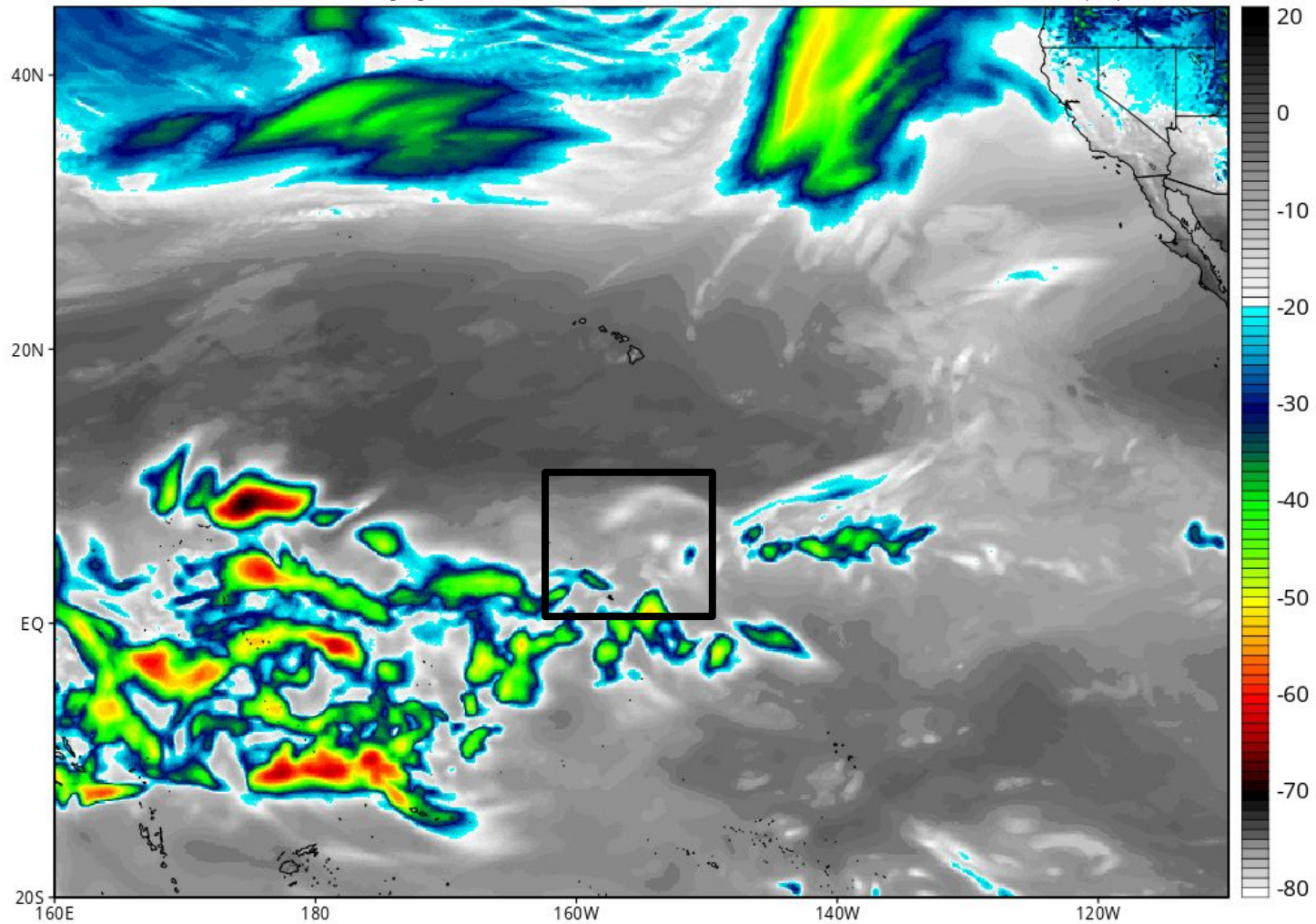
THU 15Z February 4 Enhanced IR Image



GFS Simulated IR Brightness Temperature (°C)

Init: 12z Feb 04 2016 Forecast Hour: [12] valid at 00z Fri, Feb 05 2016

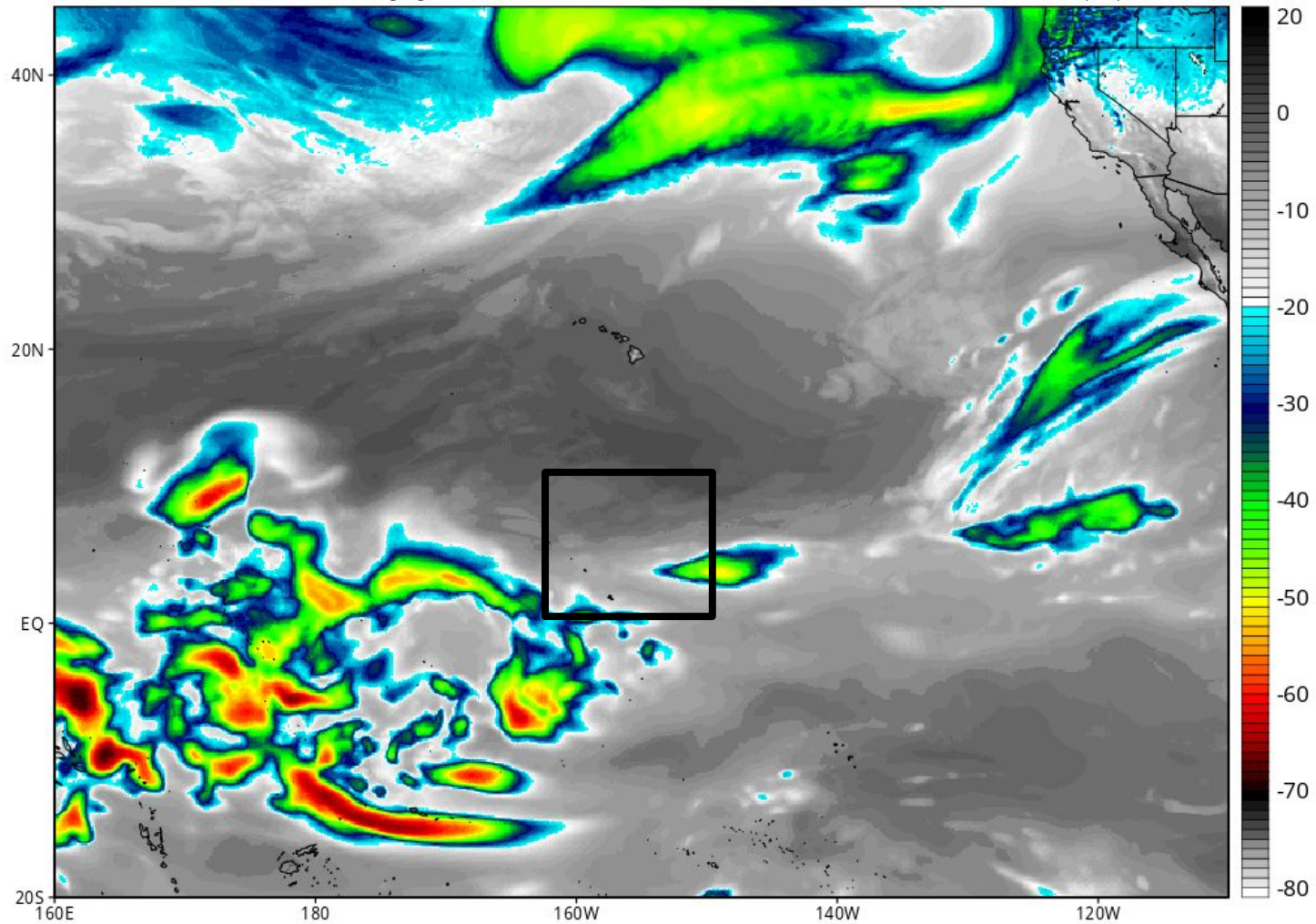
Levi Cowan | tropicaltidbits.com



GFS Simulated IR Brightness Temperature (°C)

Init: 12z Feb 04 2016 Forecast Hour: [36] valid at 00z Sat, Feb 06 2016

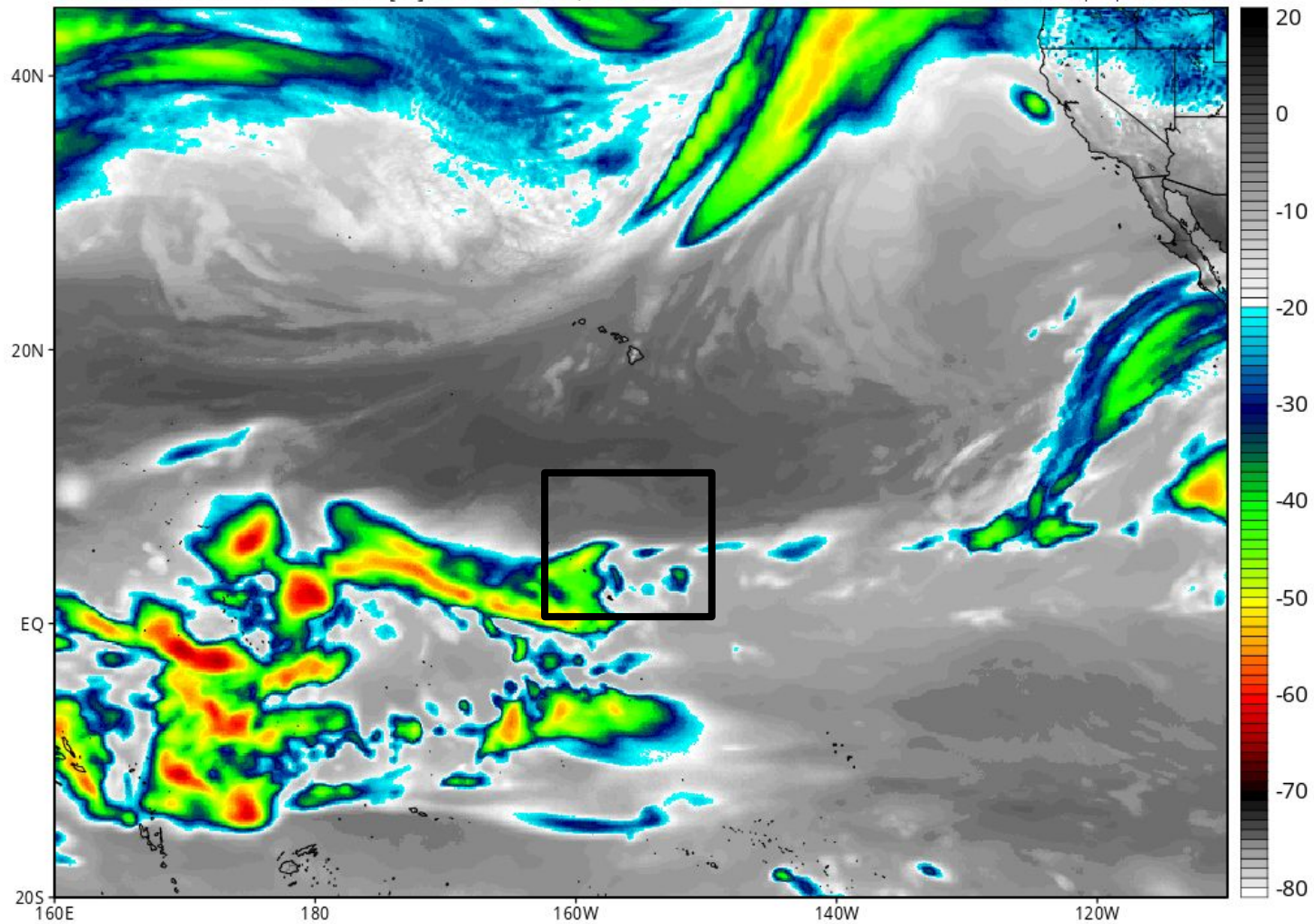
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GFS Simulated IR Brightness Temperature (°C)

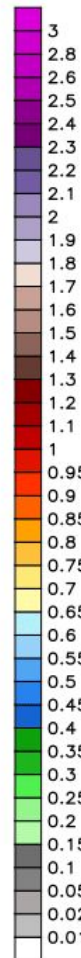
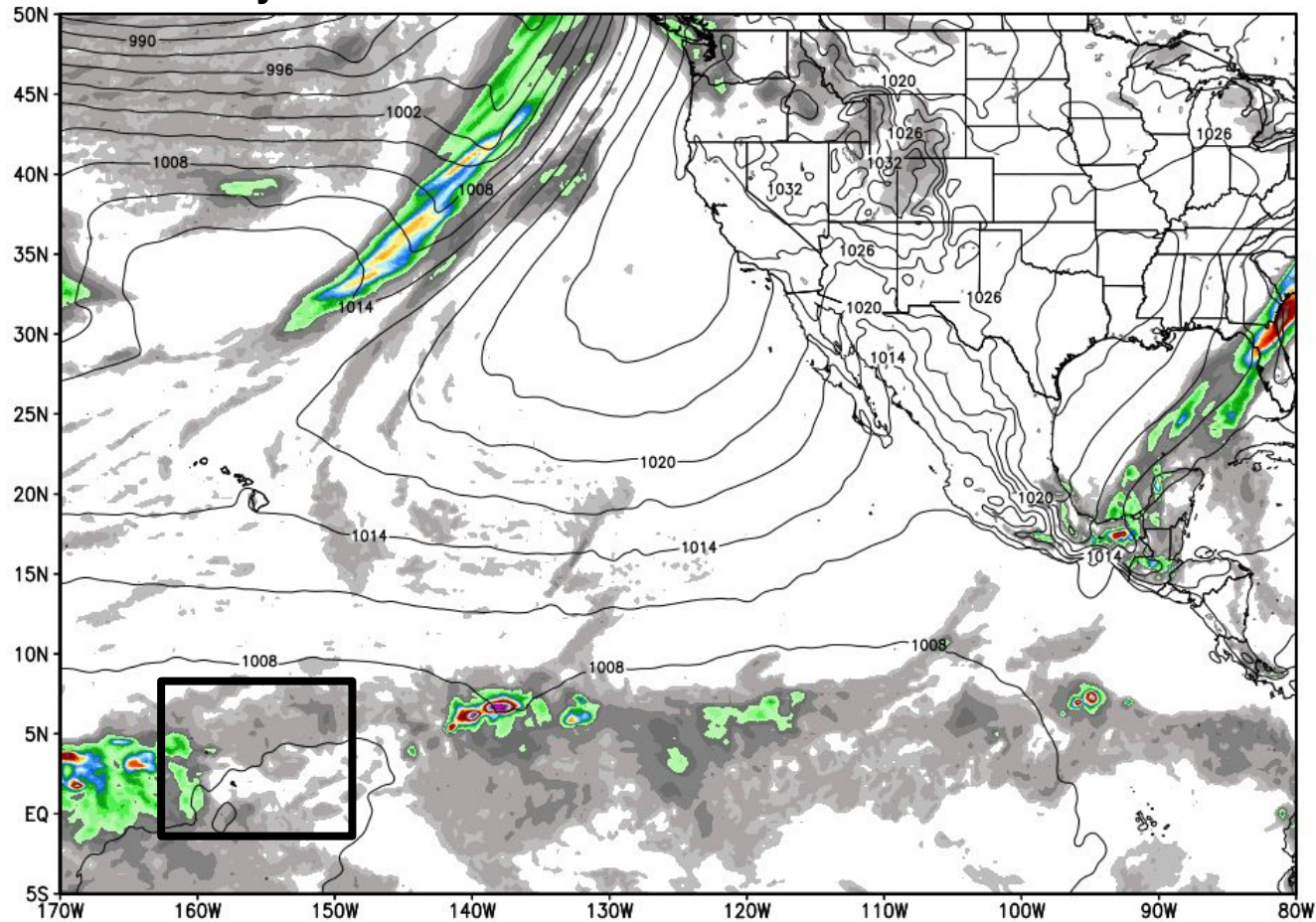
Init: 12z Feb 04 2016 Forecast Hour: [60] valid at 00z Sun, Feb 07 2016

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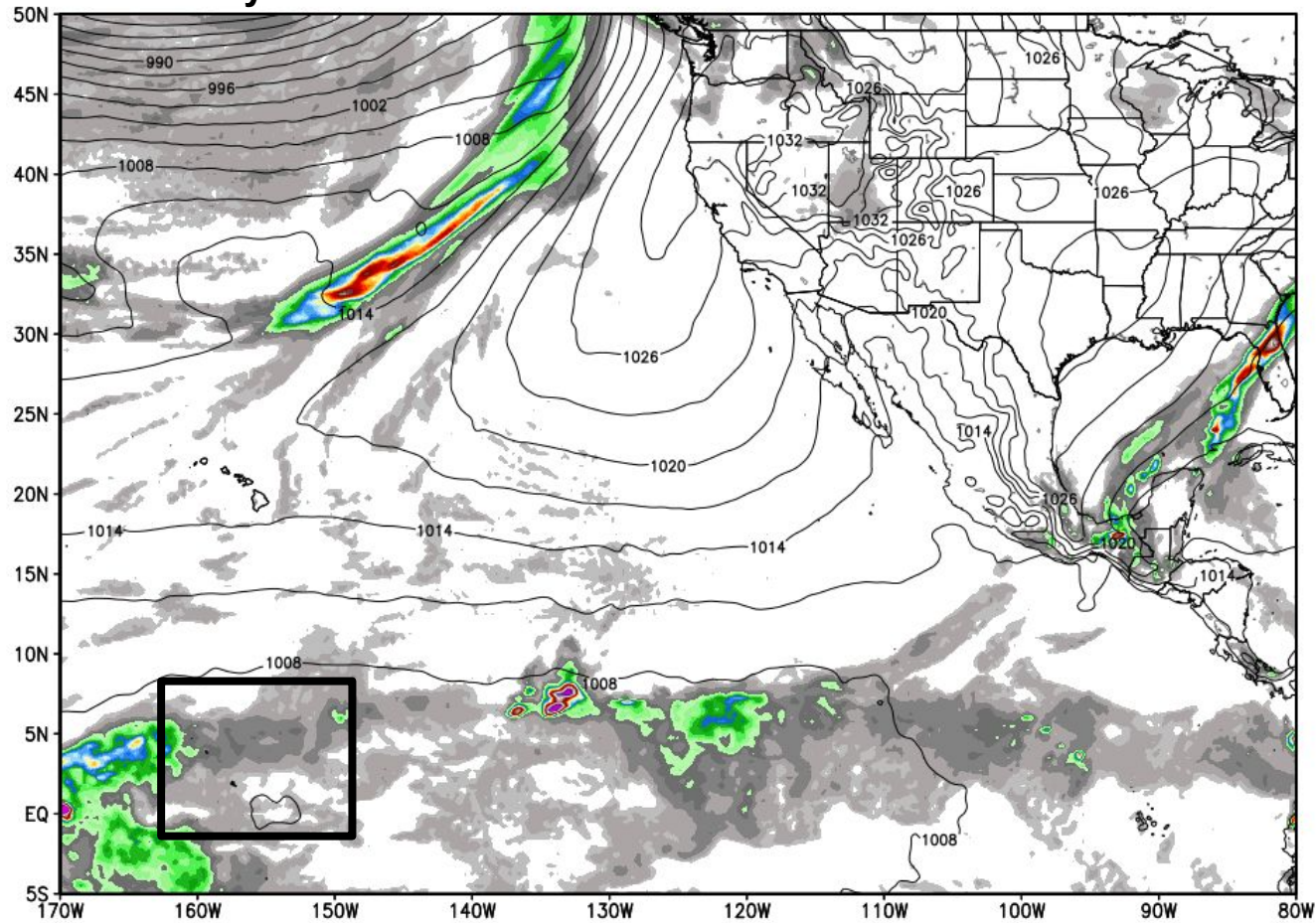
ECMWF 6-hourly Precipitation [inches] between 18Z04FEB2016 -- 00Z05FEB2016 & MSLP [hPa]
INIT: 00Z04FEB2016 fx: [024] hr --> Fri 00Z05FEB2016

Courtesy WeatherBell : Latest ECMWF 24HR Fcst Valid 00Z FRI



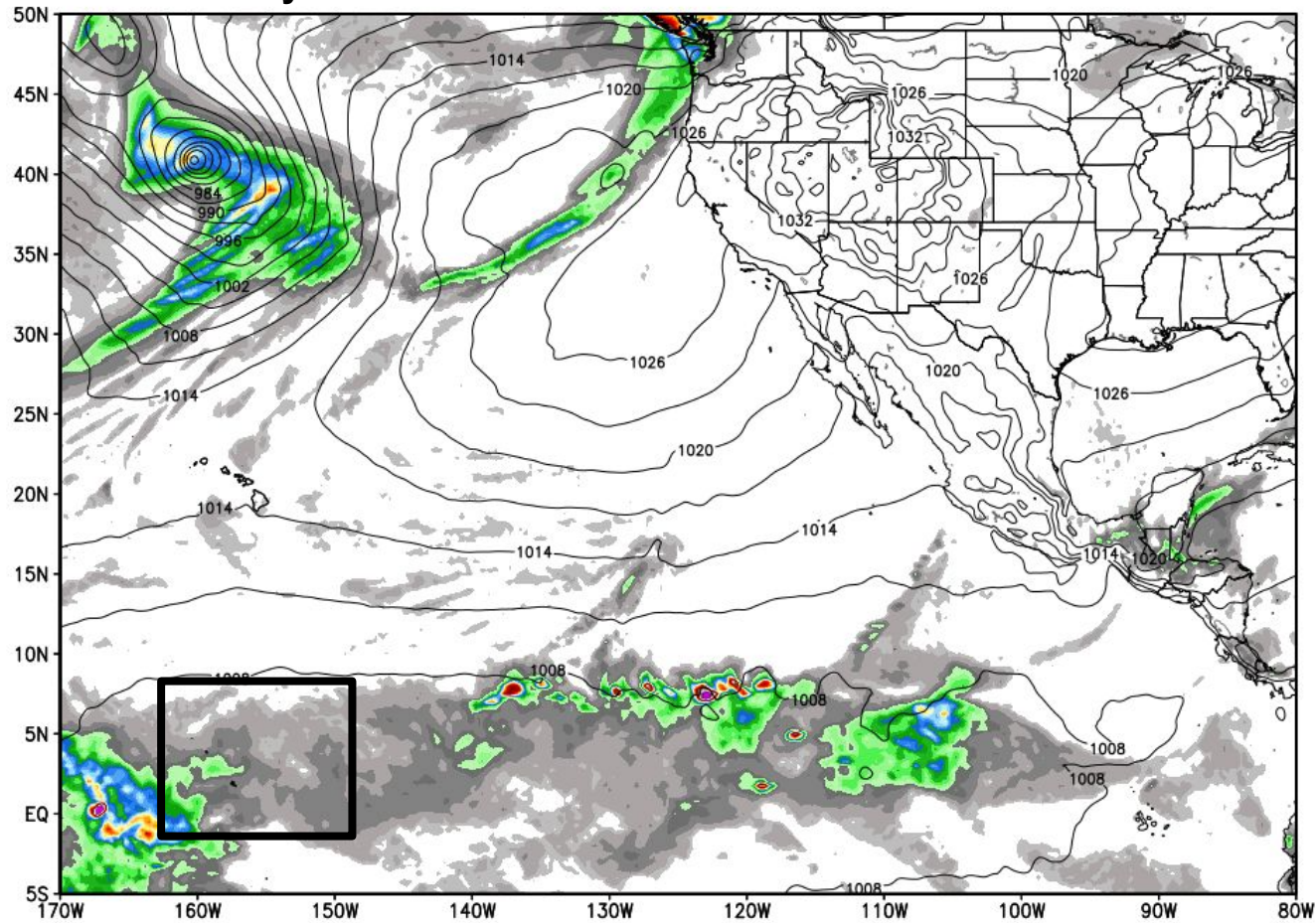
ECMWF 6-hourly Precipitation [inches] between 18Z04FEB2016 -- 00Z05FEB2016 & MSLP [hPa]
INIT: 00Z02FEB2016 fx: [072] hr --> Fri 00Z05FEB2016

Courtesy WeatherBell : Prior ECMWF 72 HR Fcst Valid 00Z FRI



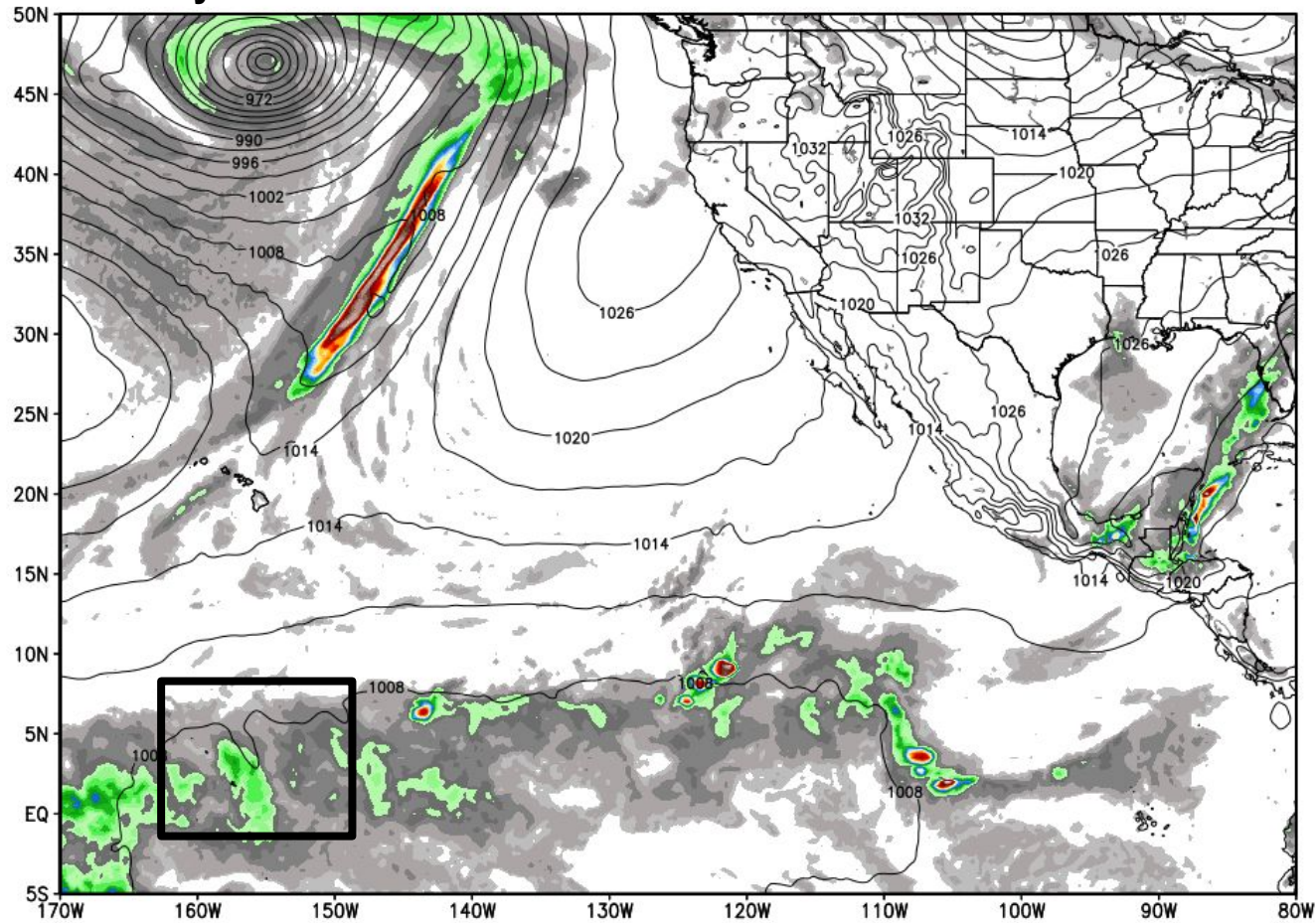
ECMWF 6-hourly Precipitation [inches] between 18Z05FEB2016 -- 00Z06FEB2016 & MSLP [hPa]
INIT: 00Z04FEB2016 fx: [048] hr --> Sat 00Z06FEB2016

Courtesy WeatherBell : Latest ECMWF 48 HR Fcst Valid 00Z Sat



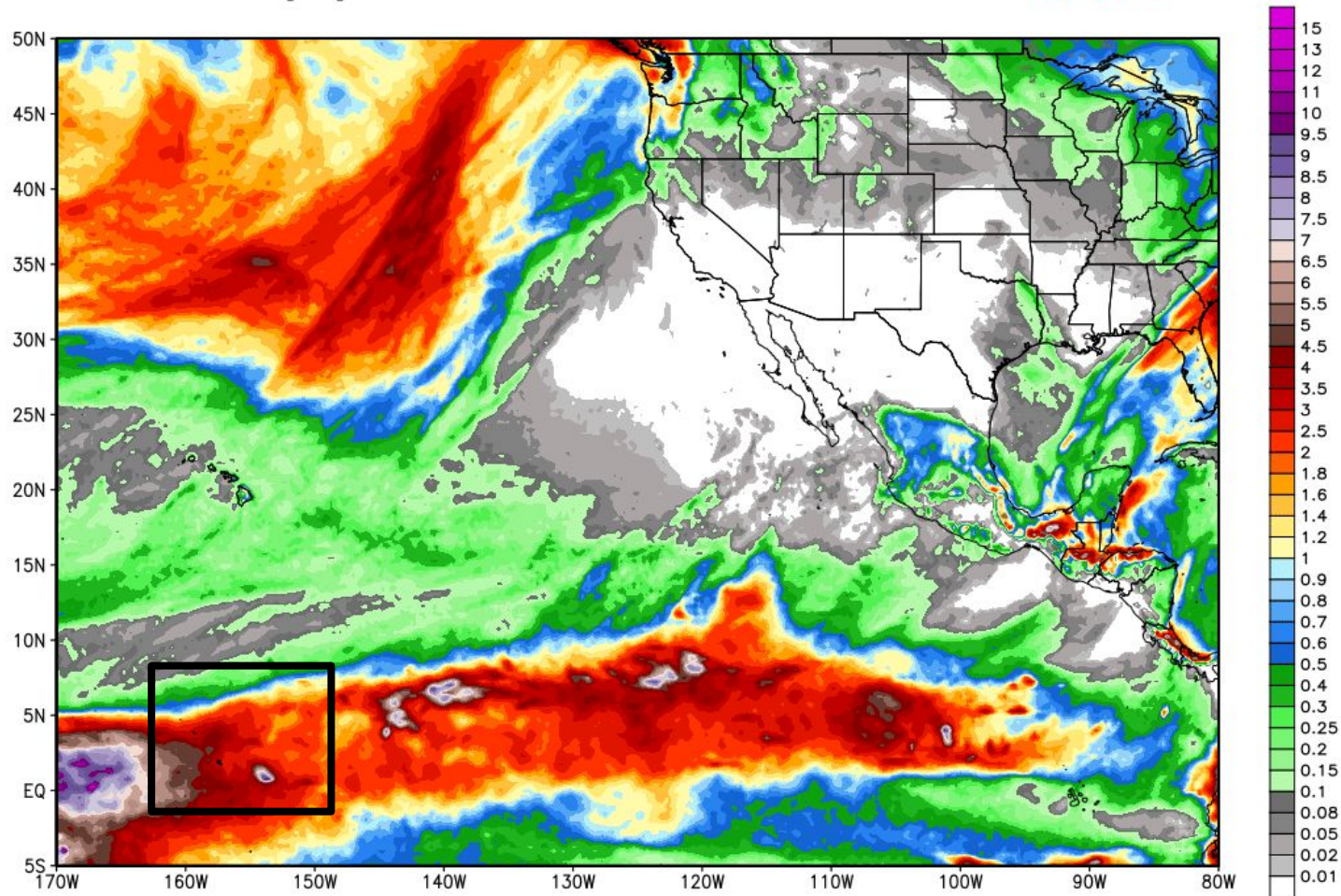
ECMWF 6-hourly Precipitation [inches] between 18Z06FEB2016 -- 00Z07FEB2016 & MSLP [hPa]
INIT: 00Z04FEB2016 fx: [072] hr --> Sun 00Z07FEB2016

Courtesy WeatherBell : Latest ECMWF 72 HR Fcst Valid 00Z SUN



ECMWF Total Precipitation [inches] between 00Z04FEB2016 -- 00Z11FEB2016
INIT: 00Z04FEB2016 fx: [168] hr --> Thu 00Z11FEB2016

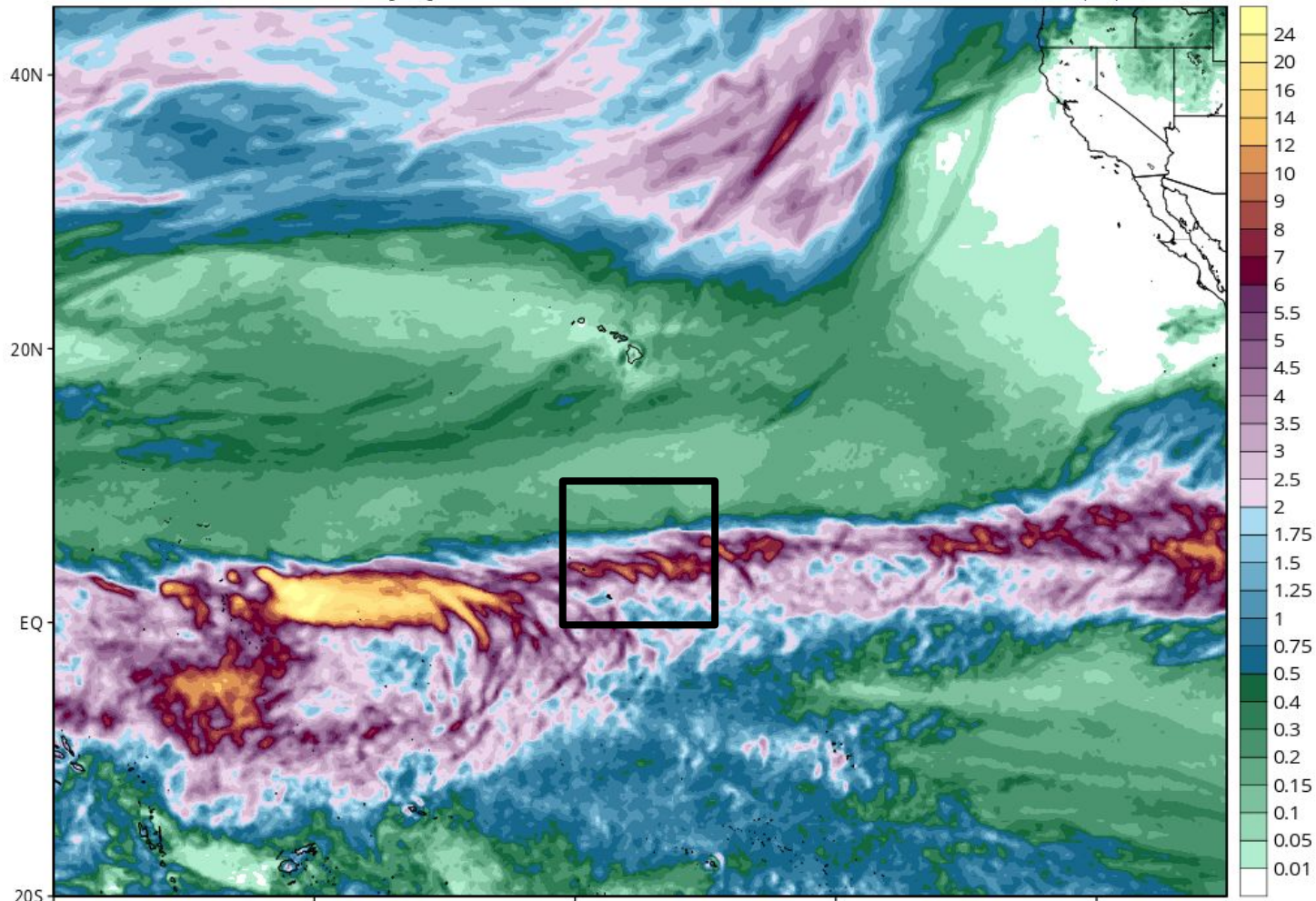
Max 13.1 in



GFS Total Accumulated Precipitation (inches) from 06z04Feb2016 to 18z10Feb2016

Init: 06z Feb 04 2016 Forecast Hour: [156] valid at 18z Wed, Feb 10 2016

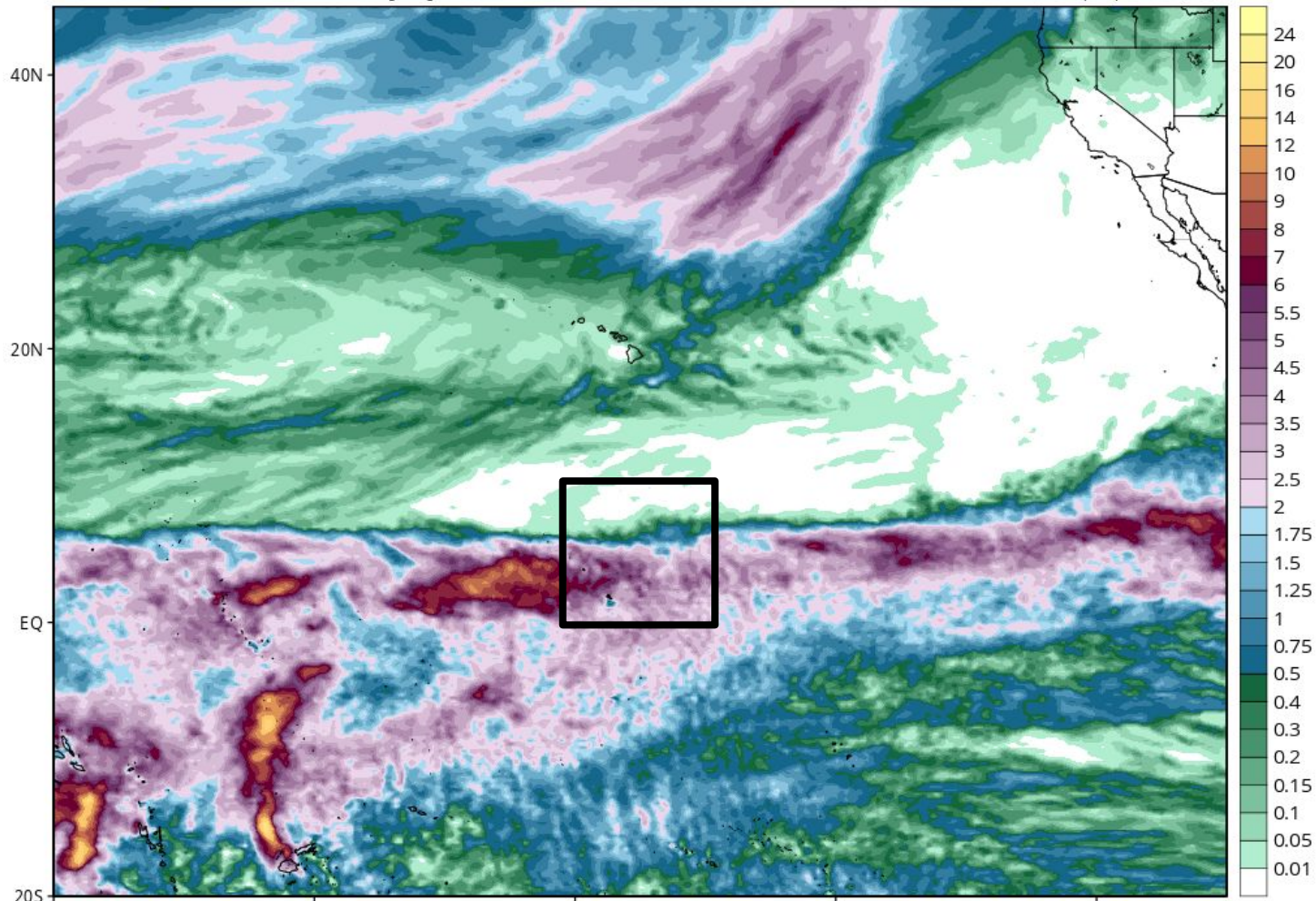
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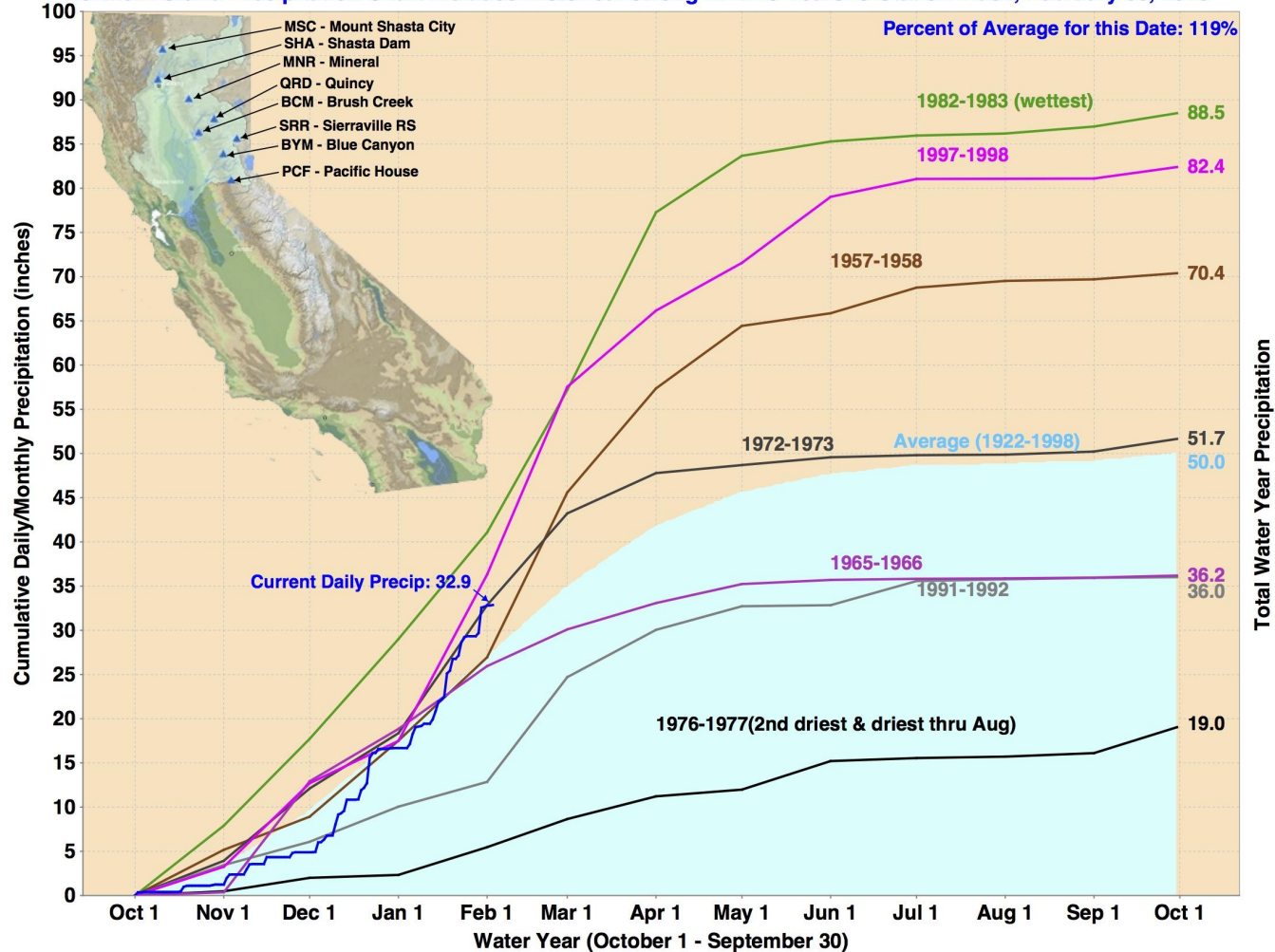
GEM Total Accumulated Precipitation (inches) from 00z04Feb2016 to 18z10Feb2016

Init: 00z Feb 04 2016 Forecast Hour: [162] valid at 18z Wed, Feb 10 2016

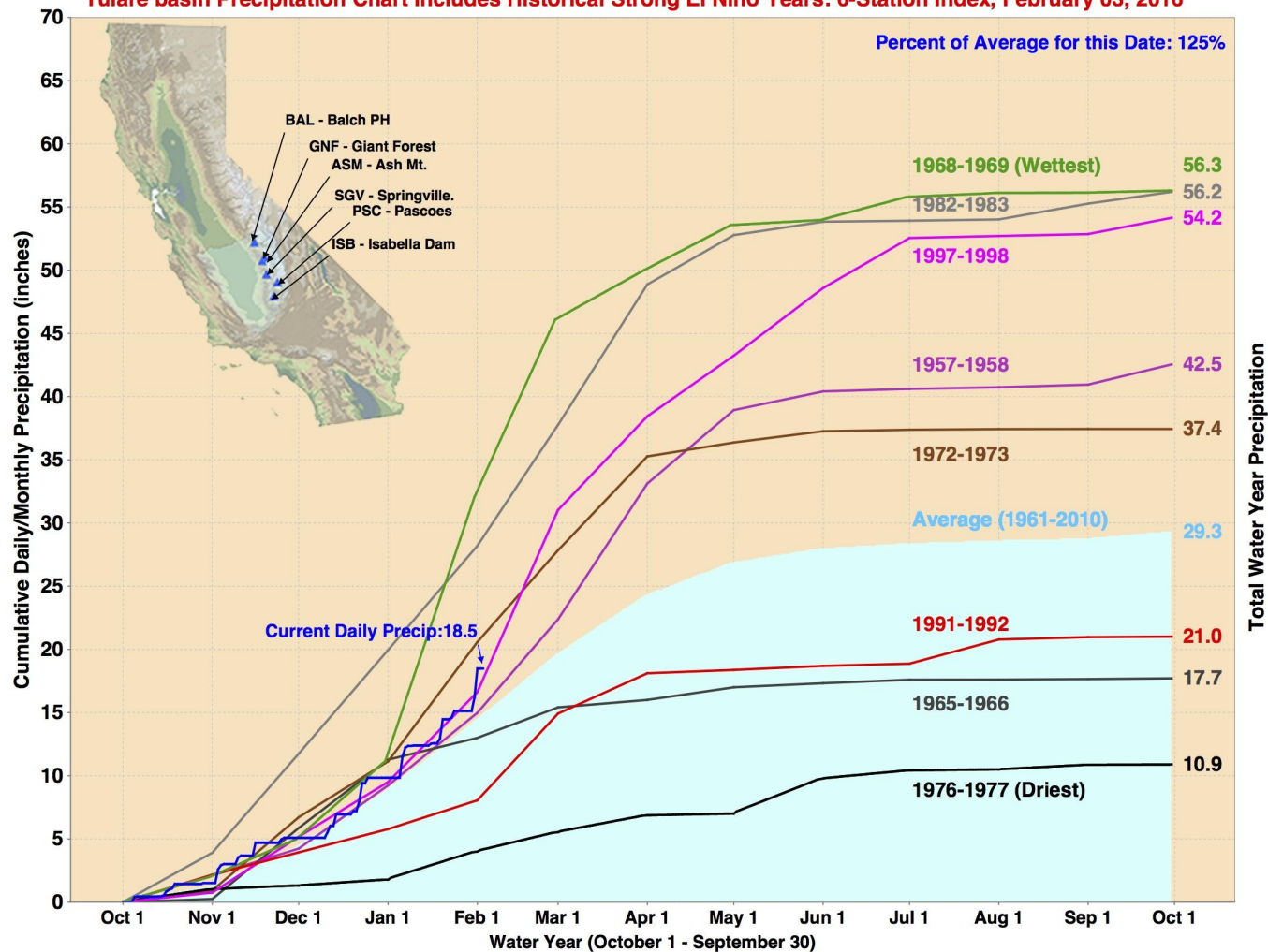
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Northern Sierra Precipitation Chart Includes Historical Strong El Nino Years: 8-Station Index, February 03, 2016



Tulare basin Precipitation Chart Includes Historical Strong El Nino Years: 6-Station Index, February 03, 2016

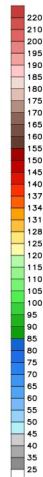
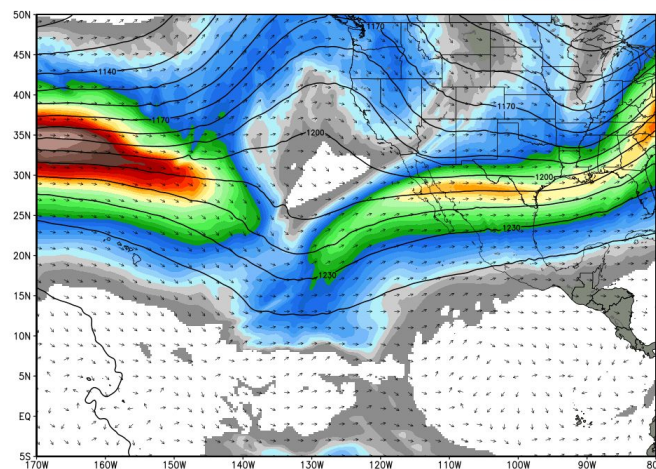


00Z FRi Feb 5

00Z MON Feb 8

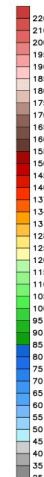
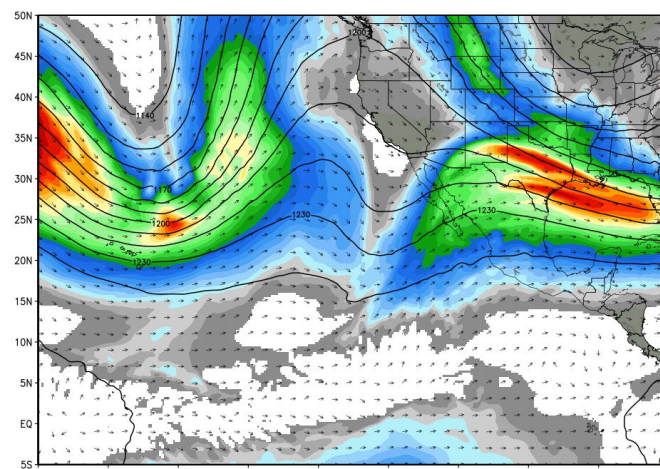
ECMWF 200 hPa Wind Speed & Vector Direction [knots], Height [dm]
INIT: 00Z04FEB2016 fx: [024] hr --> Fri 00Z05FEB2016

Max Wind 175.4 knots



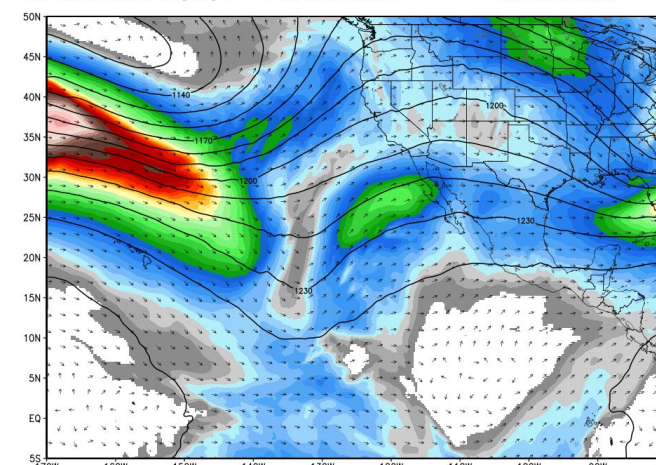
ECMWF 200 hPa Wind Speed & Vector Direction [knots], Height [dm]
INIT: 00Z04FEB2016 fx: [096] hr --> Mon 00Z08FEB2016

Max Wind 148.6 knots



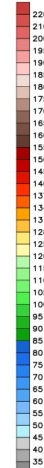
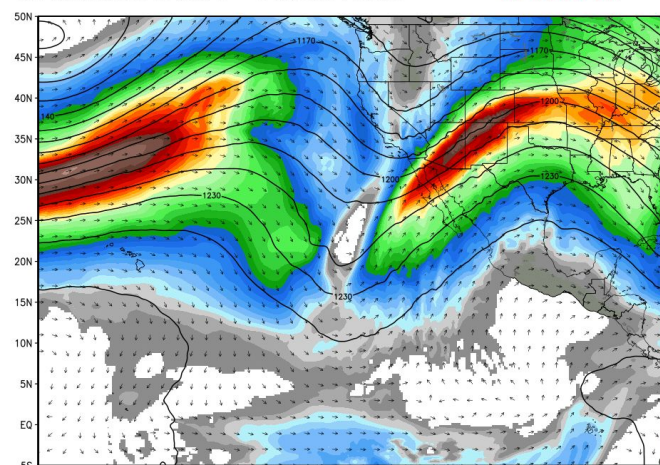
ECMWF 200 hPa Wind Speed & Vector Direction [knots], Height [dm]
INIT: 00Z04FEB2016 fx: [168] hr --> Thu 00Z11FEB2016

Max Wind 175.4 knots



ECMWF 200 hPa Wind Speed & Vector Direction [knots], Height [dm]
INIT: 00Z04FEB2016 fx: [240] hr --> Sun 00Z14FEB2016

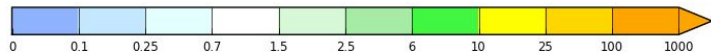
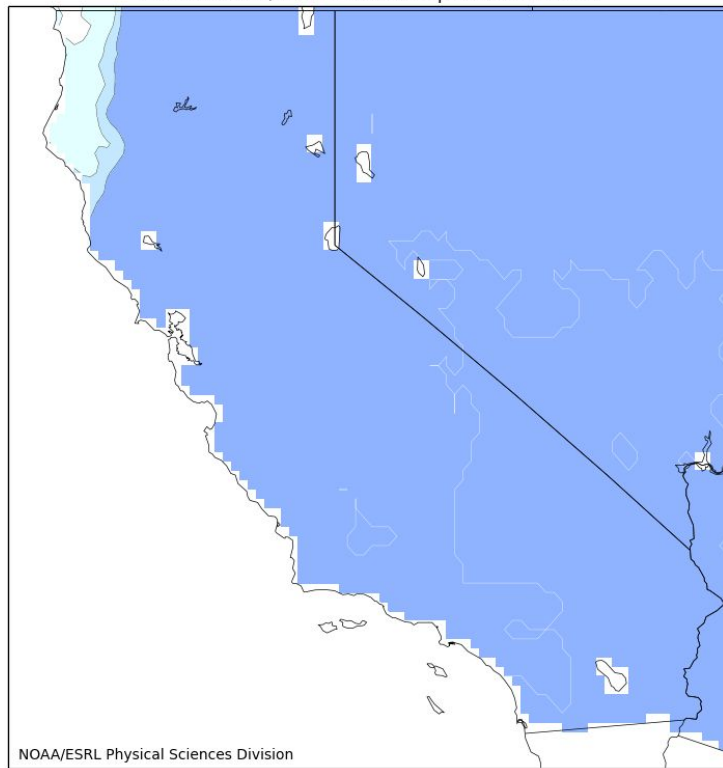
Max Wind 175.4 knots



Medium - Long Range Forecast

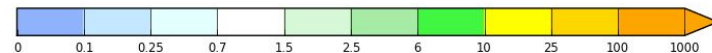
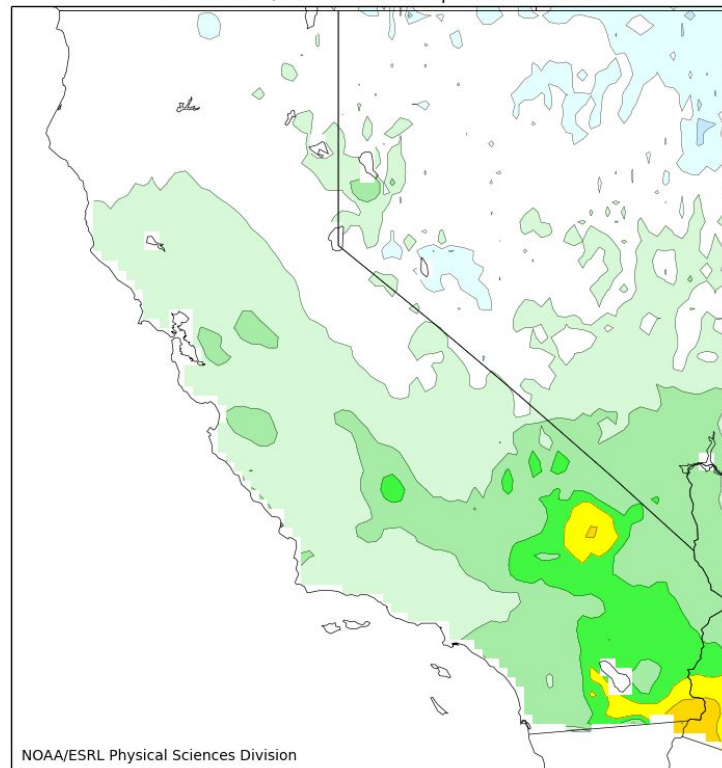
ESRL-Calibrated Reforecast Pcpn : Day 0-7 and 8-15 Day Fcst (from the 00Z WED3 FEB ensembles of the experimental reforecast system)

000-168hr fcst from 00Z Wed Feb 03. Valid 00Z Wed Feb 03 - 00Z Wed Feb 10
Ratio. Forecast/Climo Prob of Precip > 50mm. CSGD.



Ratio: Forecast Probability / Climatological Probability

198-360hr fcst from 00Z Wed Feb 03. Valid 06Z Thu Feb 11 - 00Z Thu Feb 18
Ratio. Forecast/Climo Prob of Precip > 50mm. CSGD.

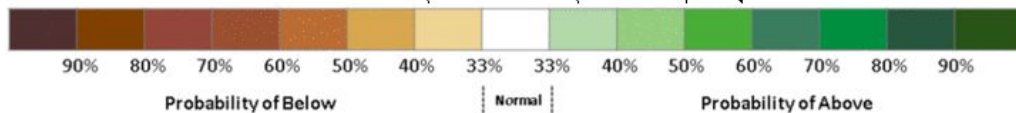


Ratio: Forecast Probability / Climatological Probability



6-10 DAY OUTLOOK
PRECIPITATION PROBABILITY
MADE 3 FEB 2016
VALID FEB 09 - 13, 2016

DASHED BLACK LINES ARE CLIMATOLOGY
(TENTH OF INCHES) SHADED AREAS ARE FCST
VALUES ABOVE (A) OR BELOW (B) NORMAL
UNSHADED AREAS ARE NEAR-NORMAL



Medium - Long Range Forecast

Day 7-10 Initialized 00Z THU 04 Feb

